

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- At time of the Action: Claims 1-18, 42, 45, and 48.
- After this Response: Claims 1-18, 42, 45, and 48.

Canceled or Withdrawn claims: none.

Amended claims: 1, 16, 17, 42, and 45.

New claims: none.

Claims:

1. (CURRENTLY AMENDED) A method of serializing an object, the method comprising:

generating a data structure ("datastruct") element embodied in one or more computer-readable media, the datastruct element being representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element;

generating contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is

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RESPONSE TO NON-FINAL OFFICE ACTION DATED
1/7/2005

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atty: Kasey C. Christie

1 associated, each parameter element having associated data between the pair of
2 parameter tags.

3
4 2. (ORIGINAL) A method as recited in claim 1, wherein the contents
5 further comprise at least one object reference referencing a second object within
6 the data structure of the first object without including the second object within the
7 contents of the datastruct element.

8
9 3. (ORIGINAL) A method as recited in claim 2, wherein the second
10 object is the first object.

11
12 4. (ORIGINAL) A method as recited in claim 1, wherein the contents
13 comprises a datatype definition for at least one data parameter element.

14
15 5. (ORIGINAL) A method as recited in claim 1, wherein the contents
16 comprises a reference to a datatype definition for at least one data parameter
17 element.

18
19 6. (ORIGINAL) A method as recited in claim 1, wherein at least one of
20 the pair of datastruct tags comprises a datatype definition for at least one data
21 parameter element.

1 7. (ORIGINAL) A method as recited in claim 1, wherein at least one of
2 the pair of datastruct tags comprises a reference to a datatype definition for at least
3 one data parameter element.

4
5 8. (ORIGINAL) A method as recited in claim 1, wherein at least one of
6 a pair of parameter tags comprises a datatype definition for associated data
7 between the parameter tags.

8
9 9. (ORIGINAL) A method as recited in claim 1, wherein at least one of
10 a pair of parameter tags comprises a reference to a datatype definition for
11 associated data between the parameter tags.

12
13 10. (ORIGINAL) A method as recited in claim 1, wherein the datastruct
14 element and its contents are encoded using XML.

15
16 11. (ORIGINAL) A method as recited in claim 1 further comprising:
17 inserting the datastruct element into a message; and
18 sending the message to an entity on a network.

19
20 12. (ORIGINAL) A method as recited in claim 11 further comprising:
21 formatting the message for sending over a network using HTTP;
22 sending the message to an entity on the network by using HTTP.

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1 13. (ORIGINAL) A method as recited in claim 11 further comprising:
2 binding the message into a HTTP request;
3 sending the message to an entity on the network by using HTTP.

4
5 14. (ORIGINAL) A method as recited in claim 1, wherein a data
6 parameter element has the following format:

7 `<parameter_label> parameter_data </parameter_label>`
8

9 the `<parameter_label>` being one of the pair of parameter tags, the
10 `</parameter_label>` being the other of the pair of parameter tags, and the
11 `parameter_label` identifying the data parameter element;

12 the `parameter_data` being the data associated with the parameter element
13 identified by the `parameter_label`.

14
15 15. (ORIGINAL) A computer-readable storage medium having
16 computer-executable instructions that, when executed by a computer, performs the
17 method as recited in claim 1.

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1 **16. (CURRENTLY AMENDED)** A method of serializing an object, the
2 method comprising:

3 generating a data structure ("datastruct") element having a pair of datastruct
4 tags encoded in XML, wherein the datastruct tags identify the datastruct element;

5 generating contents of the datastruct element between the datastruct tags,
6 the contents comprising one or more data parameter elements, each having a pair
7 of parameter tags associated therewith and encoded in XML, wherein each pair of
8 parameter tags identifies a parameter element with which the pair of tags is
9 associated, each parameter element having associated data between the parameter
10 tags.

11
12 **17. (CURRENTLY AMENDED)** A method of serializing an object, the
13 method comprising:

14 generating a data structure ("datastruct") element embodied in one or more
15 computer-readable media, the datastruct element being representative of a data
16 structure of a first object, the datastruct element having a pair of datastruct tags,
17 wherein the datastruct tags identify the datastruct element;

18 generating contents of the datastruct element between the datastruct tags,
19 the contents comprising at least one object reference referencing a second object
20 within the data structure of the first object without including the second object
21 within the contents of the datastruct element.

22
23 **18. (ORIGINAL)** A method as recited in claim 17, wherein the second
24 object is the first object.
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1 **Claims 19-41 are NON-ELECTED AND THUS CANCELED.**

2
3 **42. (CURRENTLY AMENDED)** A computer-readable storage medium
4 having computer-executable instructions that, when executed by a computer,
5 performs a method of formatting a message for exchange between entities on a
6 network, the method comprising:

7 generating a data structure ("datastruct") element representative of a data
8 structure of a first object, the datastruct element having a pair of datastruct tags,
9 wherein the datastruct tags identify the datastruct element;

10 generating contents of the datastruct element between the datastruct tags,
11 the contents comprising one or more data parameter elements representative of
12 one or more data parameters of the first object's data structure, each parameter
13 element having a pair of parameter tags associated therewith, wherein each pair of
14 parameter tags identifies a parameter element with which the pair of tags is
15 associated, each parameter element having associated data between the parameter
16 tags.

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18 **43. (CANCELED)**

19
20 **44. (CANCELED)**

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1 **45. (CURRENTLY AMENDED)** An apparatus comprising:

2 a processor;

3 an object serializer executable on the processor to:

4 generate a data structure ("datastruct") element representative of a
5 data structure of a first object, the datastruct element having a pair of
6 datastruct tags, wherein the datastruct tags identify the datastruct element;

7 generate contents of the datastruct element between the datastruct
8 tags, the contents comprising one or more data parameter elements
9 representative of one or more data parameters of the first object's data
10 structure, each parameter element having a pair of parameter tags
11 associated therewith, wherein each pair of parameter tags identifies a
12 parameter element with which the pair of tags is associated, each parameter
13 element having associated data between the parameter tags.

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15 **46. (CANCELED)**

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18 **47. (CANCELED)**
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1 **48. (ORIGINAL)** A data structure for use with a computer having a
2 processor and a memory, said structure comprising one or more data parameter
3 elements, each parameter element having a pair of parameter tags associated
4 therewith and encoded in XML, wherein each pair of parameter tags identifies a
5 parameter element with which the pair of tags is associated, each parameter
6 element having associated data between the parameter tags.

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8 **49. (CANCELED)**

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11 **50. (CANCELED)**
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